



Sri Adichunchanagiri
Shikshana Trust ®
Mahalakshmpuram,
Bengaluru-560086

SAST/CLPC/ACU-BGSMCH-02/03/2024-25

11-09-2024

TENDER NOTIFICATION

The Head, CLPC, Sri Adichunchanagiri Shikshana Trust invites closed tenders from eligible tenderers or bonafide licensed manufacturer (OEM) or their authorized local supplier/ dealer/ distributor in the state of Karnataka for Supply, Installation & commissioning of PACS machine for Radiology department at BGS MCH Hospital, Nagaruru, Nelamangala, Bengaluru north, Karnataka-562123 as per section I & II.

| | | |
|----|---------------------------------|---|
| 01 | Name of the work | Supply, Installation & commissioning of PACS machine for Radiology department at BGS MCH Hospital, Nagaruru, Nelamangala, Bengaluru north, Karnataka-562123 |
| 02 | Last Date for Tender Submission | On or before 18.09.2024 before 5.30 PM |

Section-1

Instructions to Tenderers

- 1) The Tenderer shall submit the bids (Technical & Financial bids) through the mail id: **clphead@bgscet.ac.in** on or before the last date of tender submission (for any or all list of items) on professional business letterheads only. The details to be printed on the letter head is as follows
 - i) Tender for Procurement of PACS machine for Radiology department at BGS MCH Hospital, Nagaruru, Bengaluru north, Karnataka-562123
 - ii) Tender Reference number.....[Insert Number]
 - iii) Address to "The HEAD, CLPC, Sri Adichunchanagiri Shikshana Trust, BGSCET Campus, Mahalakshmpuram, Bengaluru - 560086"
 - iv) The tenderer shall submit the original documents to this office on the last day of submission for verification who prefers to submit the tender through Post can dispatch the same through Registered post / Speed post or Couriers as to reach the above address on or before the due date and time specified in the Tender Notice. Tenders received after the due date and time, for what so ever reasons will not be considered and the authority, Head of CLPC will not be liable or responsible for the same.
- 2) **Tender Currency:** Prices shall be quoted in Indian Rupees only.
- 3) **AMC/CMC (IF ANY)** is subject to the Sri Adichunchanagiri shikshana trust's norms.
- 4) **Warranty:** As per the standards
- 5) **Amendment of tender documents:** At any time prior to the deadline of submission of tenders the trust may, for no reason, whether as its own initiative or otherwise modify the tender documents by amendment. Sri Adichunchanagiri Shikshana Trust reserves all the rights to accept, reject, incorporate changes and re-tender without giving any reasons.

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Address - #6&7, 3rd Main Pipeline Road, Chord Rd, adj to Mahalakshmi metro station, 2nd phase, Stage 2,
Mahalakshmpuram, Bengaluru, Karnataka 560086



- 6) **Documents Comprising the Tender:** Shall attach Brochure, Certification of the product, Bank/account details, PAN, GSTIN, Good Standing Certificate and 02 years of ITR declaration inside the envelope and the company contact details with email id on the in the below mention format in annexure - 1.
- 7) **Tender Prices:** Prices indicated on the price schedule shall be entered separately I.e. the price of the goods, quoted (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, as applicable), including all duties and sales and the other taxes already paid or payable. Any Indian duties, sales and other taxes which will be payable on the goods if the contract is awarded. Conditional tenders will not be considered. The bidder has to give the quotation in the below enclosed format in annexure - 2.
- 8) **Validity of the Bid:** 90 days from the last date of submission of bid.
- 9) **Corrupt or Fraudulent practices:** Sri Adichunchanagiri Shikshana Trust requires that the tenderers, observe the highest standard of ethics during the procurement and execution of such contracts. In purchase of this policy:
 - a) Will reject a proposal for award if it determines the tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
 - b) Will declare a firm ineligible, either indefinitely or for the stated period of time, to be awarded a university contract if it any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a trust contract.
- 10) **Process to be confidential:** Information relating to the examination, clarification, evaluation, and comparison of tenders and recommendations for the award of contract will not be disclosed to tenderers or any other persons not officially concerned with such process until the award to the successful tenderer has been announced. Any effort by a tenderer to influence the employer's processing of tenders or award decisions may result in rejection of his tender.
- 11) **Clarification of Tenders:** To assist in the examination, evaluation, and comparison of tenders the employer may, at his discretion, ask and tenderer for clarification of his tender, including breakdowns of unit rates. The request for clarification and the response shall be writing or by cable, but no change in the price or substance of the tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the employers in the evaluation of the tenders.
- 12) **Delivery:** The successful BIDDER should commence the service as per the tender document/work or purchase order. For any queries or assistance, please write to clpchead@bgscet.ac.in or telephone to +91- 9448270489.
- 13) **Penalty Clause:** Non-execution of supply order - for the reasons of failure to supply partially or completely within the stipulated time or any event of breach of contract. In case at any following stages
 - a) For the delayed supply (3 days of grace period) - 5% deduction
 - b) Quantity issues - 5 % deduction
 - c) Quality issues - 10% deduction



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Section-2
Technical Specification

| Sl No. | Department | Equipment | Quantity |
|--------|------------|-----------|----------|
| 1 | Radiology | PACS | 01 |

**Tender Specifications for The State-of-The-Art Picture Archiving And
Communication System & Radiology Information System (RISs- PACS)
Solution To Be Installed at The Department of Radiodiagnosis, BGSMCH, Nagarur.**

The PACS system should consist of a state-of-the-art centralized server with storage of patient information and images for upto 5 years and unlimited annual study load with scope for further expansion in terms of storage, modality connectivity and upgradation of software should be included for the next 10 years.

The system should be able to connect DICOM modalities in the network, with the following DICOM functionality

- DICOM Send/Receive
- DICOM Query/Retrieve
- DICOM Print
- DICOM Get Worklist (HIS/RIS)
- DICOM Study Split and Merge
- DICOM Storage Commitment
- DICOM Modality performance procedure step
- REMOTE access/ Mobile viewer
- VNA Level 5

The solution should provide a vendor neutral archive to store images from all modalities along with their meta-data (including source data).

The solution offered should have a central server-Hardware and Software with appropriate storage and Backup softwares. The system should be able to acquire images from DICOM modalities like CT, MRI, Digital



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radiography, Computerized Radiography, Ultrasonography, Mammography, Digital subtraction angiography and PET-CT and store on a central server.

The PACS System should be designed to have an Administrator who should be able to create users and provide necessary access, priorities and security. Also, the system should provide web access of patient images over the internet to authorized users for tele reporting purposes.

Proposed solution should have no restrictions on connections of number of modalities, viewing stations and should be hardware and platform independent.

PACS Systems should have inbuilt storage architecture to keep multiple version of images (lossless and clinical) to support tele radiology in slow networks.

PACS should be HL7 and HIPAA compliant and should comply with IHE standards.

The PACS software dashboard should display the particulars of patient, modalities, study status, report status, Study received and sent time, TAT, Referring clinician details, assigned radiologist details, second reads, Peer review, Study search with patient particulars, diagnosis, study time. Dashboard should have the analysis module. Over and above dashboard should be customized as per our needs.

The system will create customized and dedicated work list for all users. It will also be possible to create DIOCM modality work list for remote modalities sending images into the PACS for reporting.

PACS should come with HIS integration plugins as standard and PACS supplier should also be OEM supplier for Advanced 3D and RIS.

The quoting company should have adequate experience in PACS business within in India / abroad. The company needs to provide details and references sites for the following:

- Installed the same product at least in hospitals of 1000+ beds globally.
- Have prior experience in integrating hospitals/ diagnostic centers on a single PACS network.
- Incorporation certificate and balance sheets for the last 3 years. This is to ensure that the company can take up the task of digitization for hospital.

Exams, Folders, Worklists, and Queries

The system shall allow dynamically updated worklists to be created by the system administrator for a specific user and assign cases to particular radiologist. Option for the radiologist to assign cases to himself with the valid credentials. The system should have the option for second reads of our own study and outside studies.

The system should have the peer review model for the purpose of auditing.

A worklist entry for an exam shall include at least the patient name and ID, examination procedure, exam date and time, report status, modality, number of images, referring doctor, age & sex.

The system shall support work list which display a list of exams based on queries of:

- Patient name
- Patient ID
- Accession number



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- Modality
- Report status
- Study date
- Between a range of dates
- Marked studies
- AE title
- Institution name

Work lists shall be generated and stored centrally to the PACS network so that a user, logged on to any workstation, may access any worklist from the network and display exams selected from this worklist to his/her current workstation location.

Work list should be customizable for each user and allow the user to display their own set of columns. User should also be able to setup his page size and dual monitor support.

The workstation shall allow the user, with a single click, to sort the studies on any of the columns displayed in the worklist.

Offered system should utilize a data locking methodology, if several concurrent users access images i.e. Concurrent users will get reading access to images & no reporting except by 1st user is allowed.

All exams shall be accessible from every workstation, limited only by security mechanisms.

Old exams should be automatically displayed in the image viewer along with history & report. User should be able to load up to 4 priors of any modality for comparison

A mechanism shall be provided to permit a user with proper privileges to select images or exams for inclusion into one or more manually-created folders for teaching and research purposes.

It shall provide a mechanism to lock a study to prevent deletion of that study by another user.

It shall provide a mechanism to attach a message from one user to another to every study.

The Worklist shall display STAT request by easily identifiable color codes.

Should be possible to merge 2 studies together Should be possible to split a study into two.

Should support scanning of paper/reports and conversion to DICOM series.

The Worklist shall display the studies which have been locked or printed with some indication.

It should be possible to add a keyword to a study and then search & retrieve a list of studies based on that keyword.

It should have robust report search engine, to be possible to search report content for any user definable keyword and get a list of reports with such keywords.

It should have academic folder to save the interesting cases under each system or diagnosis. Should be able to customize to our requirements.



The system should allow saving of the images like video clipping for teaching purpose.

Reports:

The workstation shall allow creation of reports based on user selectable templates

The workstation shall allow pre-configured header/footer in the report

The report window shall be opened separately and multiple such windows can be opened

The report shall allow insertion of key images for printing in user selectable format

The report shall automatically display the patient demographics from the DICOM header

The workstation shall allow a user with the proper privileges to display the report for any reported exam without requiring the display of its associated images.

The administrative status of any report (e.g., approved or not approved) shall be indicated when the report is displayed.

The system shall allow creation of multiple templates according to user/modality/organ

The system shall support capture and attachment of audio file by the radiologist user for reporting

The system shall allow the transcriptionist to review the audio and transcribe the report and submit it for approval of the radiologist

The report shall support all standard formatting functions available in MS Word

Report text search engine should be available

PACS should support email/SMS/WhatsApp of reports automatically and manually on finalization.

PACS should support speech recognition using voice recognition software (augnito)

Image Annotation:

The workstation shall provide tools allowing the user to position and orient multiple instances of text and graphics (lines, arrowheads, rectangle, freehand and circles) for image annotation.

The Workstation shall provide tool for automatic labeling of intervertebral space and vertebrae (Spine Labeling)

It shall be possible to edit or delete the annotations if required at a later date

It shall be possible to print the annotations on film if required

It shall be possible to change the color, size and font of the annotations and set them as default.

Image identification

The workstation shall display along with each image at least the following patient data, where appropriate for the image and modality:

- Patient name



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- Patient ID
- Exam date and time
- Image orientation
- kVp
- mAs
- Pulse sequence
- Slice position
- Image or slice number
- Referring physician
- Institution Name
- Equipment Model

All the above shall have configurable position for display on any corner of image and user can set it in default position.

The workstation shall allow the user to toggle the display of image identification text on and off. The workstation shall provide a selected function to display the entire contents of the DICOM header for a image.

Utility Functions:

During the execution of a time-consuming function, the workstation shall working. indicate that the system is working

The workstation shall provide a function to allow the user to protect selected images from deletion.

The workstation shall provide a function to allow the user to mark interesting studies and search them.

Should support a user-friendly admin user interface

User creation and different rights assignment should be available

Remote administration of workplaces and PACS servers should be possible

Should be possible to store the client configuration data centrally

IT Dashboard which provides DICOM information of major activities like number of users logged in, study status, Services status should be available

Statistical reports must be possible to be produced based on different criterion like TAT, Study volumes, radiologist TAT, CD Written, Films printed etc.

Should be possible to export the MIS reports to MS Excel

System should support roaming user profiles (After logon, the user-specific settings are loaded independently on the workplace).

Settings should be saved in a central repository



Should define user groups according to the departmental structures

User administration possible should be without programming skills

Should provide complete audit trail of activities in the system.

Image Archive

The system shall provide sufficient storage capacity to provide direct rapid access to 60 months of image production in online archive with provision for further upgradation.

Secondary archive should store 5 years data and must retrieve automatically without manual intervention

Should be Vendor Neutral Archive (VNA 5)

The system shall not store any image in the storage system with non-reversible compression. (Lossy compression)

The system shall make exams available for retrieval by workstations.

The storage system shall tolerate the failure of a single disk drive without loss of data.

The storage system shall remain operational in the event of the failure of a single disk drive.

The storage system shall remain operational during the service required to correct a failed disk drive.

The storage system shall support the storage and retrieval of all SOP classes needed to accommodate the present modalities. It shall support Explicit as well as Implicit Value Representation as part of its Syntax and store Explicit VR as its default transfer syntax.

The system shall provide a DICOM interface to which DICOM-compliant external devices may connect. External devices are devices not supplied with the system and include but are not limited to image review workstations, image printers and modalities.

The system shall include a DICOM Query/Retrieve SCP which is based on the Patient and Study Root Information model and which provides query responses for all studies, series, and images stored in either the Storage System and/or the Archive System.

The system shall include a DICOM Modality Worklist Management SCP.

The system shall include a DICOM Storage Commitment SCP which accepts storage commitment by the modalities.

The bidder shall provide with the proposal the Conformance Statements covering all DICOM services of the system for each individual component.

The external DICOM interface shall support storage of ultrasound images using the Ultrasound Storage SOP Class.

The system shall provide DICOM Support for ultrasound.

Image library function for research and marking interesting cases must be available

Tele radiology module for accessing images and reporting from remote locations should be available.



There should be provision to load JPEF images / TIFF images/ BITMAP images to the system to be printed on film.

Exam Display, Arrangement and Image Processing

The workstation shall have the capability to display CT and MRI scout images with the slice position lines overlaid on the image. User shall have the option of displaying all lines or only 1 line specific to one image

Rapid sequential paging through images of an exam displayable on a single monitor shall be provided.

Should display indication of printed studies

Should display indication of finalized studies

Should be possible to give keywords to any images and search on those later

If multiple image series are viewed, it shall be possible to page through the series independently.

The system should allow minimum of four studies to open at a time.

The workstation shall support arranging groups of images into a stack (with only the top image visible) and displaying them sequentially forward or backward.

The workstation shall support Thumbnail view providing a quick glance at the series within a study.

The workstation shall support image display based on Acquisition time, Table position and Instance number of CT images

The workstation shall support linking two or three image stacks and moving through them synchronously so that the same anatomic position or image sequence position is displayed in each stack.

The Workstation shall provide for full screen image display and paging in this full screen window.

A cine function with a user selectable, variable frame rate of at least 1 to 30 frames per second shall be provided.

The cine function shall support user selectable continuous display, reverse playing and true size display of images.

The user shall be able to extract frames from the cine file and save it as individual image.

The workstation shall display all images of a cine file in user selectable display format in one keystroke/mouse click

The workstation shall provide dynamic window width and level through the entire image grayscale dataset.

The window width and level function shall be applicable to a single image, selected images or all images

Window width and level values shall be displayed on the image in real time

Display of the inverse grayscale of any image shall be supported.

The system should synchronized navigation which enables spatial synchronization across examination and different study time.



The system shall provide unlimited user-configurable window width and level defaults for each user.

Window width and level defaults shall be user-, modality- and organ-specific.

A rapid method to select among default window width and level values shall be provided. The intent of this requirement is to allow the user to jump between, for example, bone windows and soft tissue windows in CT using function keys.

If an image is received from a modality along with a window width and level for viewing, the window width and level parameters shall be used for the initial display on the workstation.

If an image is displayed for which no window width and level is available, the workstation shall select a set of values, which at least make the image visible as a starting point for subsequent manual changes.

Ability to load different studies of different patients, side by side for comparison

System should provide a quick filter function for one click search of studies (Weekly, Daily, Monthly)

Predefined modality-specific display layouts

The workstation shall allow user to convert image/series/study from DICOM to JPEG/BMP format for local storage.

Time of performing the study should be displayed on all the images.

images, saving of fusion images as DICOM file, allowing organ extraction and removal, allowing object extraction and removal for editing.

Radiologist viewer should have the following:

- Pan & Zoom
- Flip, Rotate, Invert
- Crop
- Cross reference lines
- Dynamically adjustable cine loop
- Measurements
- Linear
- Angular
- Spine labeling. Measurement to mark the vertebrae of the spine;
- Vertebra Angle. Measure an angle between the user-drawn vertebra axis and the horizontal axis of the image;
- Volume. Measure the volume of a 2D image. The 2D area is spun around a selected axis to form a 3D shape and the volume of the shape is then measured;
- Right / Left Markers
- Gray scale invert facility
- Flagging images
- Hiding/showing image texts



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- Magnifier glass
- ROI - freehand, rectangular, round
- Opening multiple studies at a time
- Opening images in review mode, while reporting of other study
- Lossless export and import of DICOM images
- MPRs without loss of data
- 3D/ 4 quadrant views
- Curved MPR
- Opening of multiple studies and series for comparison
- Set slice thickness and reslice series
- Minip, Maxip and Avgip
- Filters to increase the resolution of images
- Swivel mode
- Advanced sync: pointer synch the same position of different series of a study.
- Synchronized navigation in MPR and different studies
- Printing on paper and Film
- MPR Rendering (Orthogonal, Oblique, curved etc)
- MPR shape selection
- MPR reformats
- MIP, AveIP, MINIP & Color Volume
- MIP & 3D volume rendering
- 2D review
- Live image capture
- Graphic card support
- MIP & Gray Scale volume rendering
- Compatible for NONDICOM images,
- Advanced 3D viewing tools.

There should be a provision for Artificial intelligence (AI) tool similar to computed aided detection (CAD) to draw the attention of the radiologist towards missing lesions (optional).

General requirements:

The proposed solution should have unlimited radiologists and Zero foot print viewer licences.

The solution should provide 2 diagnostic grade medical monitors of 24'' or higher with 3Mp or higher resolution, two high end radiologist reporting workstation with specifications given below. Each one connected to the report printers for printing the reports.



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The remote/ tele reporting provisions during emergency / night duties should be with username and pass Word login.

The necessary LAN cabling and networking should be performed by the PACS solution company itself.

All the systems should be connected to Film printers of the department for film printing.

All the systems should have DVD /CD writing facility.

There should be provision to load and store the outside CD/ DVDs to the PACS solution for viewing and analysis.

RIS- SPECIFICATIONS:

*Patient registration.

* Generates patient worklist based on data provided by HIS/ Manual entry.

*Centralized system for scheduling and managing patient appointment

ADHAR/ PAN Card/ PASSPORT /VOTER ID link to generate permanent RIS number of the patient for future use (Optional).

In case of emergencies, the patient registration should be possible without these IDs but requirement for link to ID proof within next 48 hrs.

* Support DICOM modality worklist to different modalities available in hospital.

*Reporting Tools

*Image viewer URL is passed to HIS which enables physician to view radiology Images, radiology reports

*Complete Web Based Reporting

*DICOM MWL (DICOM MWL SCP)

*Scheduling of patient appointments

*Easily incorporate existing report templates in RIS

*Quick Search based on Patient Name, Patient ID, etc.

*Complete reporting workflow

*Reporting Roles like Senior or Junior Dr's & much more can be configured

*Multilevel reporting in the form of DRAFT (Complete /Incomplete), SIGNED OFF/VALIDATED.

*User wise reporting access privilege.

*Stats reads highlighted and automatically take priority - emergency reporting

*Complete MIS reporting

*Email & SMS Alerts (Gateways to be provided by customer)



- *Customized reporting formats
- *Unique ID Generation for each report
- *Patient Comments (Search based on Patient comments)
- *Dose monitoring (Usage of contrast on patients. Manual Entering)
- *Accounting Package (Invoice Generation)
- *HIS Integration
- *PACS Integration with Workstation
- *Attach/Scan patient document
- *Print reports with watermarks for unfinalized reports
- *Color Coded Reporting Status
- *Dashboard

The PACS- RIS system should be functional throughout the day and all the days of the week. In cases of breakdown, the system should be within repaired within 1hr for software problems and 24hrs for hardware problems.

Hardware

1. Main PACS App/DB Server – Tower Server - 1

- PACS Server –

Processor: Redundant Processor: Intel Xeon Gold 6248R X 2 No

RAM: 128 GB

OS Boot Drive: 512 GB X 2 No M2 SSD in RAID 6

OS: Win 2022 Server.

Storage: 8TB X 8NO enterprise drives: Total 64 TB installed capacity, Usable 40 TB after RAID 6 and 1HOT Spare

RAID Controller: Onboard hardware RAID controller with 2 GB Flash Raid Memory

Network Card: Ethernet 10 GBPS X 2 No inbuilt

Power Supply Units: Dual fully redundant PSU's

Accessories: 14 Inch Server Display, keyboard, Mouse, USB CD drive

Other Connections: USB X 3 No



Power Chords: 2 No

UPS: 3.5 KVA UPS with Inbuilt Batteries

3 Years Warranty.

2. **Radiologist Workstation: 2**

Processor: Intel core Gen i7

32 GB RAM

1 TB SSD

OS: Win 11 Authentic

NVIDIA T 1000 Graphics with 4 GB VRAM

Display: 32 Inch:

3 Years Warranty.

3. Diagnostic Grade Medical monitor: 2
3MP or more –Barco or equivalent.

4. Augnito Voice recognition software license – 2

Summary:

PACS System should be upgradeable to be configured with Hospital Information System (HIS) VaHL7Message Protocol, and integration package for the same should be quoted as optional along with Radiology Information System (RIS).

All RIS- PACS system applications should be modifiable as per the departmental needs.

PACS requirements (Department of Radio diagnosis)

1. Software

| SI NO | Description | Quantity |
|-------|---|-----------|
| | Core License: | 1 |
| 1. | PACS Application/Database Server Core License @ Hospital campus, Unlimited Dicom connectivity within hospital campus. | 01 |
| | Dicom Modality License | |
| 2. | Dicom Modality License –(CR-1,DR-1,USG-1,CT-1, MRI-1) | 05 |
| | General: Viewing | |
| 3. | Viewing Licenses for Clinicians / Physicians | Unlimited |
| 4. | Viewing Licenses for Technicians | Unlimited |
| 5. | Zero Footprint Viewer Mobile/Tab Viewing Licenses | Unlimited |



| | | |
|-----|---|----------------|
| | General: Add on Licenses | |
| 6. | Studies/Procedure/Images archival Licenses | 01 |
| 7. | CD/DVD Writing Licenses including Blu Ray & RoboticCD Writing | 01 |
| 8. | Document Scanning Licenses | 01 |
| 9. | DICOM Print Licenses(standard) | Unlimited |
| 10. | DICOM Push Licenses | Unlimited |
| 11. | DICOM Query / Retrieve Licenses | Unlimited |
| 12. | Modality Worklist SCP/SCU Licenses | 10 |
| 13. | Email/Fax/SMS Alerts (Gateways required) | Unlimited |
| | General: Management | |
| 14 | MIS & Analytics Reports | To be Included |
| | For Radiologist | |
| 15 | Radiologist Workstation Licenses | Unlimited |
| 16 | Teleradiology licenses | Unlimited |
| 17 | MIP/MPR/VR, remote reporting license including Mobile | Unlimited |
| 18 | Reporting Module with embedded MS Word/HTML | To be Included |
| 19 | Key Image on Reports facility | To be Included |
| 21 | Digital Signature Module | To be Included |
| 22 | Audio Dictation Module | To be Included |
| 23 | Voice Recognition Integration Module | To be Included |
| 24 | Add Audio & Text Notes (Also available for other users) | Unlimited |
| | Special Modules for Radiologist | |
| 25 | Image library & CME module Licenses | Unlimited |
| 26 | Data Mining Licenses (Report Keyword Search Engine) | Unlimited |
| 27 | Peer Review Module | To be Included |
| 28 | Critical Results Alert Module | To be Included |
| 29 | Study Link Sharing, Via(Email,SMS,Web Whatsapp) | To be included |
| | Archiving | |
| 30 | Archiving module License-VNA level 5 | To be Included |
| | Third Party Integration: (Appropriate Licenses Needs to be procured) | |
| 31 | Bidirectional Integration with HIS/EMR (HL7 or Non HL7) | To be Included |
| 32 | Implementation Services | ONSITE |
| 33 | Training Services | ONSITE |



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| | | |
|----|---------------------------|------------|
| 34 | Warranty and Maintenance | THREE Year |
| 35 | Free Software Upgradation | Ten years |

| | | |
|---|---|-----------|
| 1 | Dicom Data import, export, special medical college edition with standard three year warranty. | 1 License |
|---|---|-----------|

2. Hardware

| SI NO | Description | Quantity |
|-------|--|----------|
| 1 | Main PACS App/DB Server – Tower Server Processor: Redundant Processor: Intel Xeon Gold 6248R X 2 No RAM: 128 GB OS Boot Drive: 512 GB X 2 No M2 SSD in RAID 6 OS: Win 2022 Server. Storage: 8TB X 8NO enterprise drives: Total 64 TB installed capacity, Usable 40 TB after RAID 6 and 1HOT Spare RAID Controller: Onboard hardware RAID controller with 2 GB Flash Raid Memory Network Card: Ethernet 10 GBPS X 2 No inbuilt Power Supply Units: Dual fully redundant PSU's Accessories: 14 Inch Server Display, keyboard, Mouse, USB CD drive Other Connections: USB X 3 No Power Chords: 2 No UPS: 3.5 KVA UPS with Inbuilt Batteries 3 Years Warranty. | 1 No |
| 2 | Radiologist Workstation | 2 No |



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| | | |
|---|--|------|
| | Workstation: Processor: Intel core Gen i7 32 GB RAM 1 TB SSD OS: Win 11 Authentic NVIDIA T 1000 Graphics with 4 GB VRAM Display : 32 Inch: 3 Years Warranty. | |
| 4 | Diagnostic grade medical monitor – 3 MP or higher resolution | 2 No |
| 5 | Augnito voice recognition software license | 2 No |

Note:

- 1 All systems should be supplied with UPS and minimum back up of 30mins in order to prevent hard disk damage.
- 2 High speed internet facility for the server and radiology workstations.
- 3 Adequate LAN coverage for consultant and radiology departments.
- 4 The DICOM module should have necessary plug-ins for compatibility of equipment of all the manufacturers in the market.
- 5 CMC will be charged according to our institution norms.



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Shikshana Trust ®
Mahalakshmpuram,
Bengaluru-560086

Annexure – 1

PARTICULARS OF THE BIDDER

| Sr. No | Description | Details (to be filled by the responder to the Bid) |
|--------|--|--|
| 1 | Name of the company | |
| 2 | Official address | |
| 3 | Phone No. And Fax No. | |
| 4 | Corporate Headquarters Address | |
| 5 | Phone No. And Fax No. | |
| 6 | Web Site Address | |
| 7 | Details of Company's Registration (Please enclose copy of the company registration document) | |
| 8 | Name of Registration Authority | |
| 9 | Registration Number and Year of Registration | |
| 10 | ISO certifications and its validity | |
| 11 | GST registration No. | |
| 12 | Permanent Account Number (PAN) | |
| 13 | Company's Revenue for last 3 years (Year wise) | |
| 14 | Company's net worth for the last year | |
| 15 | Bank Details (Name, Account no., Branch, IFSC, MICR) | |

[Handwritten Signature]



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Annexure - 2


The Bidder has to quote the rate in the Item Data available online with this bid. Details to be filled up for price bid are as below:

The price shall be inclusive of all taxes (inclusive of GST) under the relevant Laws of India.

| SL. No | Particular | Amount In Rs. (Inclusive of All the taxes) |
|----------------------------|--|--|
| 1 | Total Cost for Supply, Installation & commissioning of PACS machine for Radiology department at BGS MCH Hospital | |
| Total in Rs and in words - | | |

Cost related to Supply, Installation & commissioning as per Items mentioned in the Compliance sheet for technical proposal.

| SL. No | Item Description | Quantity | Unit Rate | | Total Commercial Cost in Rs. |
|-----------------------------------|------------------|----------|-------------------|-----------|------------------------------|
| | | | Base price in Rs. | % GST/HSN | |
| Radiology | | | | | |
| 1 | PACS | 1 | | | |
| Total Price (Inclusive GST) in Rs | | | | | |


HEAD, CLPC 11/9/24
**SRI ADICHUNCHANAGIRI
SHIKSHANA TRUST
BANGALORE - 560086**